



**Rules and Regulations
for the Construction
and Classification of
Ships for the Carriage
of Liquid Chemicals
in Bulk,
July 2009**

Notice No. 4

Effective Date of Latest
Amendments:

See page 1

Issue date: April 2012

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RULES AND REGULATIONS FOR THE CONSTRUCTION AND CLASSIFICATION OF SHIPS FOR THE CARRIAGE OF LIQUID CHEMICALS IN BULK, *July 2009*

Notice No. 4

This Notice contains amendments within the following Sections of the *Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquid Chemicals in Bulk, January 2009*.

The amendments are effective on the dates shown:

Chapter	Section	Effective date
21	21.4	1 July 2012

The *Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquid Chemicals in Bulk, July 2009* are to be read in conjunction with this Notice No. 4. The status of the Rules is now:

Rules for Ships for Liquid Chemicals	Effective date:	July 2009
Notice No. 1	Effective date:	1 March 2010 & Corrigendum
Notice No. 2	Effective date:	1 July 2011
Notice No. 3	Effective date:	1 July 2012
Notice No. 4	Effective date:	1 July 2012

All text which does not appear in the IGC Code is prefixed by 'LR' and thick vertical lines (see LR II.3)

Chapter 21

Criteria for Assigning Carriage Requirements for Products Subject to the IBC Code

Effective date 1 July 2012

21.4 Criteria used to assign the minimum carriage requirements for products, which meet the minimum safety or pollution criteria to make them subject to chapter 17 of the IBC Code

21.4.9 Column i – Electrical equipment

21.4.9.1 If the flash point of the product is $\leq 60^{\circ}\text{C}$ or the product is heated to within 15°C of its flash point then the electrical equipment required are assigned according to the following criteria, else ‘-’ is assigned in column *i'* and *i''*.

.1 Column *i'* – Temperature class:

- T1 Autoignition temperature $\geq 450^{\circ}\text{C}$
- T2 Autoignition temperature $\geq 300^{\circ}\text{C}$ but $< 450^{\circ}\text{C}$
- T3 Autoignition temperature $\geq 200^{\circ}\text{C}$ but $< 300^{\circ}\text{C}$
- T4 Autoignition temperature $\geq 135^{\circ}\text{C}$ but $< 200^{\circ}\text{C}$
- T5 Autoignition temperature $\geq 100^{\circ}\text{C}$ but $< 135^{\circ}\text{C}$
- T6 Autoignition temperature $\geq 85^{\circ}\text{C}$ but $< 100^{\circ}\text{C}$

.2 Column *i''* – Apparatus group:

Apparatus group	MESG at 20°C (mm)	MIC ratio product/methane
IIA	≥ 0.9	> 0.8
IIB	> 0.5 to < 0.9	≥ 0.45 to ≤ 0.8
IIC	≤ 0.5	< 0.45

for Group IIC: the MESG is < 0.5 mm or the MIC ratio is < 0.45 .

.2.3. It is necessary to determine both the MESG and the MIC ratio when:

- .1 The MIC ratio determination only has been made, and the ratio is between 0.8 and 0.9, when an MESG determination will be required;
- .2 The MIC ratio determination only has been made, and the ratio is between 0.45 and 0.5, when an MESG determination will be required; or
- .3 The MESG only has been found, and is between 0.5 mm and 0.55 mm, when an MIC ratio determination will be required.

.3 Column *i'''* Flash point:

$> 60^{\circ}\text{C}$:Yes
 $\leq 60^{\circ}\text{C}$:No
 Non-flammable :NF

LR 2.0

Apparatus group	MESG at 20°C (mm)	Test media
IIA	0,9	Propane
IIB	0,65	Ethylene
IIC	0,28	Hydrogen

- .2.1 The tests shall be carried out in accordance with the procedures described in IEC 60079-1-1:2002 and IEC 79-3.
- .2.2 For gases and vapours it is sufficient to make only one determination of either the Maximum Experimental Safe Gap (MESG) or the Minimum Igniting Current (MIC) provided that:
 - for Group IIA: the MESG > 0.9 mm or the MIC ratio > 0.9 .
 - for Group IIB: the MESG is ≥ 0.55 mm and ≤ 0.9 mm; or the MIC ratio is ≥ 0.5 and ≤ 0.8 .

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Registered office
71 Fenchurch Street, London, EC3M 4BS
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